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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,046	10/12/2004	Steffen Danielsen	10262.204-US	6213
25908 7590 07/17/2007 NOVOZYMES NORTH AMERICA, INC. 500 FIFTH AVENUE			EXAMINER	
			HOFFER, SUSANNA MARIE	
SUITE 1600 NEW YORK, NY 10110			ART UNIT	PAPER NUMBER
ŕ			1609	
,			MAIL DATE	DELIVERY MODE
			07/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/511,046	DANIELSEN ET AL.			
		Examiner	Art Unit			
		Susanna Hoffer	1609			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication, operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 12 Oc	<u>ctober 2004</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav Claim(s) is/are allowed. Claim(s) 1-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
9)	The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	- · · · · · · · · · · · · · · · · · · ·				
Priority u	ınder 35 U.S.C. § 119					
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	4)	Date			
	Paper No(s)/Mail Date <u>Oct. 12, 2004.</u> 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johansen (US 6,100,080).

The claims recite a composition comprising a laccase or a compound exhibiting laccase activity, a source of oxygen, an enhancing agent and a source of iodide ions, wherein the source of iodide ions is one or more salts of iodide and which can further comprises a surfactant. The claims further recite a method of using such a composition for killing or inactivating spores and decontaminating a location that has been exposed

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to spores, wherein the spores are located on a surface including a textile surface or a laboratory or process equipment surface.

Johansen teaches the use of a biocidal composition comprising laccase, the atmosphere as a source of oxygen, and a surfactant (col. 7, lines 12-26; col. 11, lines 58-59). Johansen also teaches the use of this composition on a textile surface and a surface present in a process equipment member of a cooling tower, a water treatment plant, a dairy, a food processing plant, a chemical or pharmaceutical process plant (col. 2, lines 34-39).

The disclosure of Johansen does not specifically discuss the use of the composition as a sporacide or the use of enhancing agents and iodide salts in combination with laccase.

However, Johansen teaches a method of using the composition for treatment of biofilm (col. 7, lines 12-26; col. 8, lines 22-29; col. 11, lines 58-59) and that enhancing agents and iodide salts as a source of ionic iodide can be used as electron-donors in combination with peroxidase (col. 8, lines 22-29).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the composition as a sporacide because biofilms can comprise colonies of yeasts, fungi, and/or protozoa and these organisms develop from mitotic division of spores. It would have also been obvious to a person of ordinary skill in the art at the time the invention was made to use an enhancing agent and iodide salt as an electron-donor in combination with laccase because laccase also catalyzes an oxidation/reduction reaction.

Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johansen (US 6,100,080) as applied to claims 1-12 above, and further in view of Svendsen, et al. (US 6,221,821).

Claims 13-14 recite the composition of claim 1, wherein the components of the composition are packaged in one or more compartments or layers or in a ready-to-use sporocidal formulation.

Although Johansen teaches the composition of claim 1, the disclosure does not teach that the composition can be packaged in one or more compartments or layers or in a ready-to-use sporacidal formulation.

Svendsen, et al. teach that an anti-microbial composition can be used in a two part formulation system, wherein one component is separated from the rest. Svendsen, et al. also teach that such a composition can be a ready-to-use product (col. 9, lines 64-67; col. 11, lines 16-26).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to package a sporacidal composition in a container that separated the components so that they would not mix before use. It would have also been obvious to a person of ordinary skill in the art at the time the invention was made to package a sporacidal composition in a ready-to-use formulation so that using the sporacide would be more convenient.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susanna Hoffer whose telephone number is (571)272-9345. The examiner can normally be reached on Monday - Friday, 9:00 a.m.-5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571)272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Susanna Hoffer

PRIMARY EXAMINER